

# Section 7

## Alcohol and Other Drug-Related Total Crashes, Injury Crashes and Fatal Crashes, 2000

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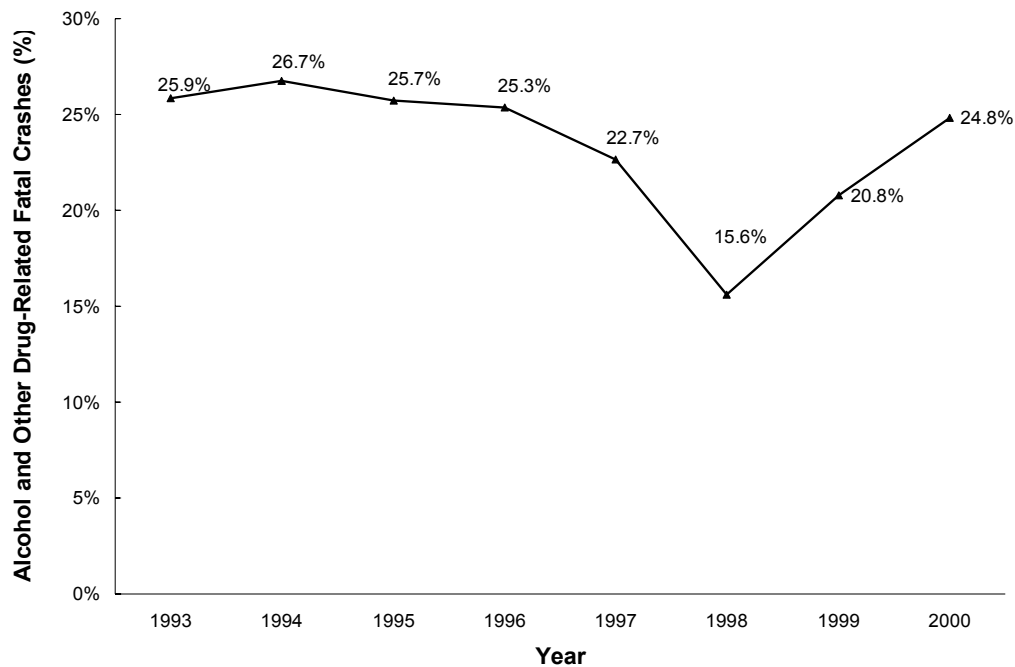
# Alcohol and Other Drug-Related Fatal Crashes and Fatalities 1993-2000

For the past eight years, the percentage of alcohol and other drug-related fatal motor vehicle crashes and fatalities has remained fairly consistent at approximately a quarter of all fatal crashes. The percentage of alcohol and other drug-related fatal motor vehicle crashes dropped to an all time low of 15.6% in 1998 (Table 7.01 and Figure 7.01). In 2000 there was a 19.7% increase in fatal alcohol and other drug-related crashes and a 25.0% increase in alcohol and other drug-related crash fatalities from the previous year.

Table 7.01 Alcohol and Other Drug-Related (A/D) Fatal Crashes and Fatalities, Utah 1993 - 2000

Year	Fatal Crashes			Fatalities		
	Total Number	Number A/D	Percentage A/D	Total Number	Number A/D	Percentage A/D
1993	263	68	25.9%	303	74	24.4%
1994	303	81	26.7%	343	94	27.4%
1995	284	73	25.7%	325	84	25.8%
1996	292	74	25.3%	328	86	26.2%
1997	309	70	22.7%	366	88	24.0%
1998	308	48	15.6%	350	49	14.0%
1999	318	66	20.8%	360	72	20.0%
2000	318	79	24.8%	373	90	24.1%

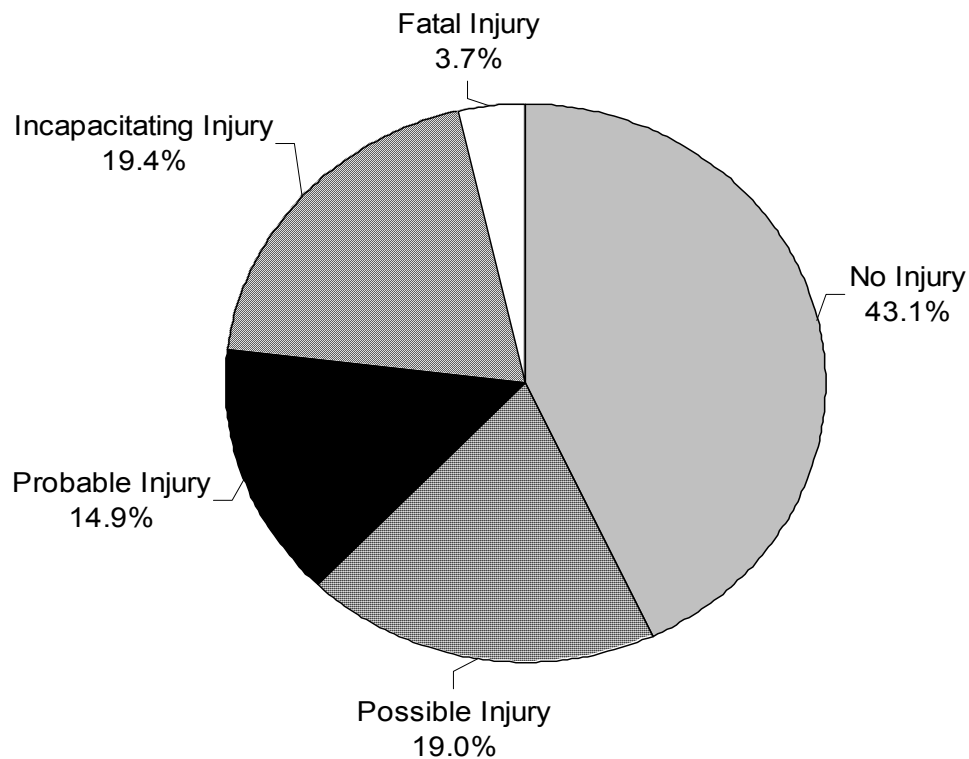
Figure 7.01 Alcohol and Other Drug-Related Fatal Crashes, Utah 1993 - 2000



# Alcohol and Other Drug-Related Crash Severity

Over half (56.9%) of alcohol and other drug-related crashes resulted in at least one injury compared to 37.4% of all motor vehicle crashes (Figure 7.02). The percentage of alcohol and drug-related crashes that resulted in a fatality was 3.7% compared to 0.6% of all motor vehicle crashes.

Figure 7.02 Severity of Alcohol and Other Drug-Related Crashes as Reported by Police, Utah 2000 (n=2,163)



# Alcohol and Other Drug-Related Crashes by County

Table 7.02 shows the number of alcohol and other drug-related crashes by county. The leading counties for total alcohol and other drug-related crashes per million vehicle miles traveled were Salt Lake, Weber, and Duchesne and the leading counties for injury alcohol and other drug-related crashes per miles traveled were Rich, Duchesne, and Salt Lake. The highest rates for fatal alcohol and other drug-related crashes per miles traveled were in Morgan, Wayne, and Uintah Counties.

Table 7.02 Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes by County, Utah 2000

County	A/D Total Crashes			A/D Injury Crashes			A/D Fatal Crashes		
	#	Rate per	Rate per	#	Rate per	Rate per	#	Rate per	Rate per
		10,000	100		10,000	100		100,000	1000
		Population	MVMT		Population	MVMT		Population	MVMT
Beaver	13	18.7	6.1	9	13.0	4.2	0	0.0	0.0
Box Elder	39	9.1	4.3	19	4.5	2.1	1	2.3	1.1
Cache	64	6.9	8.1	37	4.0	4.7	3	3.2	3.8
Carbon	17	7.5	4.9	5	2.2	1.4	0	0.0	0.0
Daggett	1	11.7	3.9	0	0.0	0.0	0	0.0	0.0
Davis	134	5.7	6.4	66	2.8	3.2	3	1.3	1.4
Duchesne	25	17.4	12.9	17	11.8	8.8	1	6.9	5.2
Emery	21	18.7	6.0	8	7.1	2.3	5	44.6	14.2
Garfield	3	6.3	2.2	3	6.3	2.2	0	0.0	0.0
Grand	17	15.5	6.1	15	13.7	5.4	0	0.0	0.0
Iron	35	10.2	6.2	28	8.1	5.0	1	2.9	1.8
Juab	11	13.4	3.2	4	4.9	1.2	2	24.4	5.8
Kane	10	13.4	8.1	7	9.4	5.7	0	0.0	0.0
Millard	16	12.4	3.9	7	5.4	1.7	1	7.7	2.4
Morgan	7	10.0	5.8	3	4.3	2.5	3	42.9	24.9
Piute	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
Rich	5	26.6	11.2	4	21.3	9.0	0	0.0	0.0
Salt Lake	1,022	11.7	14.0	546	6.3	7.5	26	3.0	3.6
San Juan	12	8.9	4.3	8	5.9	2.9	2	14.8	7.1
Sanpete	18	8.0	7.9	9	4.0	3.9	2	8.9	8.8
Sevier	19	9.7	4.9	10	5.1	2.6	3	15.3	7.7
Summit	42	15.3	6.8	19	6.9	3.1	0	0.0	0.0
Tooele	81	23.0	12.0	51	14.5	7.6	3	8.5	4.5
Uintah	35	14.0	11.8	19	7.6	6.4	6	24.1	20.3
Utah	238	6.9	7.9	123	3.6	4.1	5	1.4	1.7
Wasatch	21	14.6	8.4	8	5.5	3.2	3	20.8	12.0
Washington	45	5.2	5.0	28	3.2	3.1	1	1.2	1.1
Wayne	5	19.1	12.2	3	11.4	7.3	1	38.2	24.4
Weber	207	10.9	13.7	96	5.0	6.4	7	3.7	4.6
Statewide	2,163	10.0	9.6	1,152	5.3	5.1	79	3.6	3.5

# Alcohol and Other Drug-Related Crash Times

Table 7.03 and Figure 7.03 show that the total alcohol and other drug-related crashes and injury crashes followed the same time pattern, peaking at 1 a.m. Fatal alcohol and other drug-related crashes followed a slightly different pattern; most of these crashes occurred in the evening and early morning (8 p.m. to 1 a.m.).

Table 7.03 Hour of Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2000

Hour	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
12 a.m.	135	6.2%	61	5.3%	5	6.3%
1 a.m.	183	8.5%	93	8.1%	10	12.7%
2 a.m.	130	6.0%	71	6.2%	2	2.5%
3 a.m.	78	3.6%	49	4.3%	1	1.3%
4 a.m.	58	2.7%	37	3.2%	3	3.8%
5 a.m.	47	2.2%	24	2.1%	5	6.3%
6 a.m.	40	1.8%	18	1.6%	5	6.3%
7 a.m.	43	2.0%	27	2.3%	0	0.0%
8 a.m.	34	1.6%	15	1.3%	1	1.3%
9 a.m.	16	0.7%	12	1.0%	0	0.0%
10 a.m.	29	1.3%	17	1.5%	2	2.5%
11 a.m.	40	1.8%	26	2.3%	3	3.8%
12 p.m.	48	2.2%	24	2.1%	2	2.5%
1 p.m.	46	2.1%	19	1.6%	2	2.5%
2 p.m.	60	2.8%	32	2.8%	4	5.1%
3 p.m.	83	3.8%	38	3.3%	3	3.8%
4 p.m.	99	4.6%	52	4.5%	3	3.8%
5 p.m.	111	5.1%	59	5.1%	2	2.5%
6 p.m.	131	6.1%	72	6.3%	3	3.8%
7 p.m.	121	5.6%	63	5.5%	2	2.5%
8 p.m.	147	6.8%	87	7.6%	5	6.3%
9 p.m.	142	6.6%	79	6.9%	5	6.3%
10 p.m.	188	8.7%	94	8.2%	4	5.1%
11 p.m.	153	7.1%	83	7.2%	6	7.6%
Missing	1	0.0%	0	0.0%	1	1.3%
Grand Total	2,163	100.0%	1152	100.0%	79	100.0%

Figure 7.03 Hour of Alcohol and Other Drug-Related (A/D) Injury Crashes and Fatal Crashes, Utah 2000 (See Table 7.03 for values)

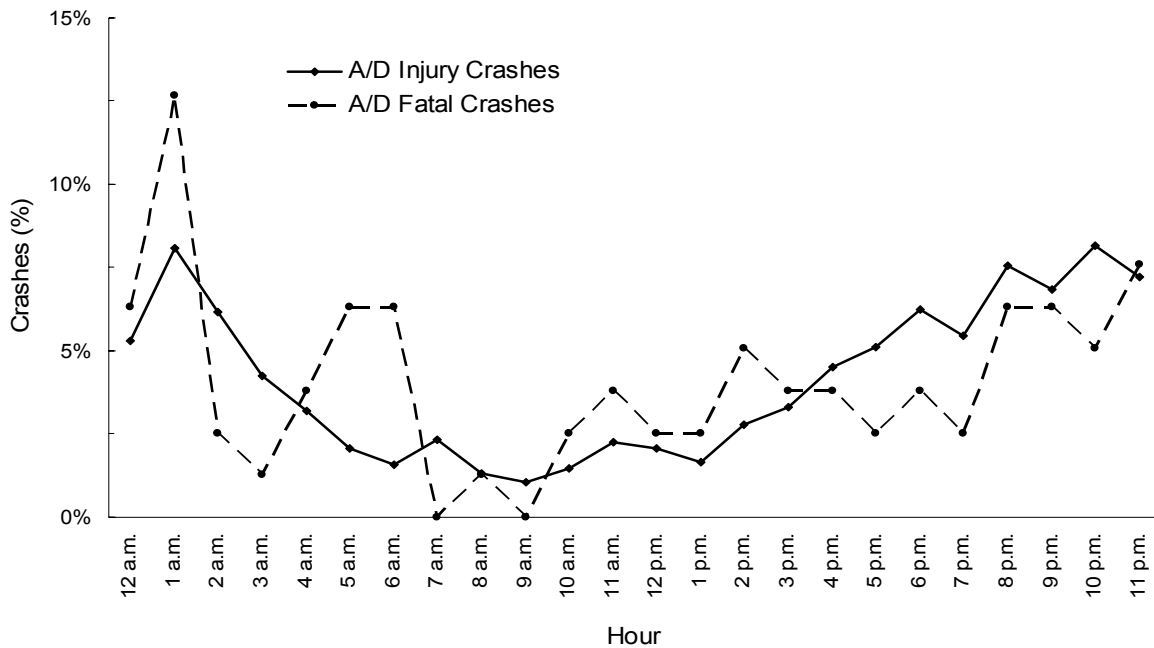


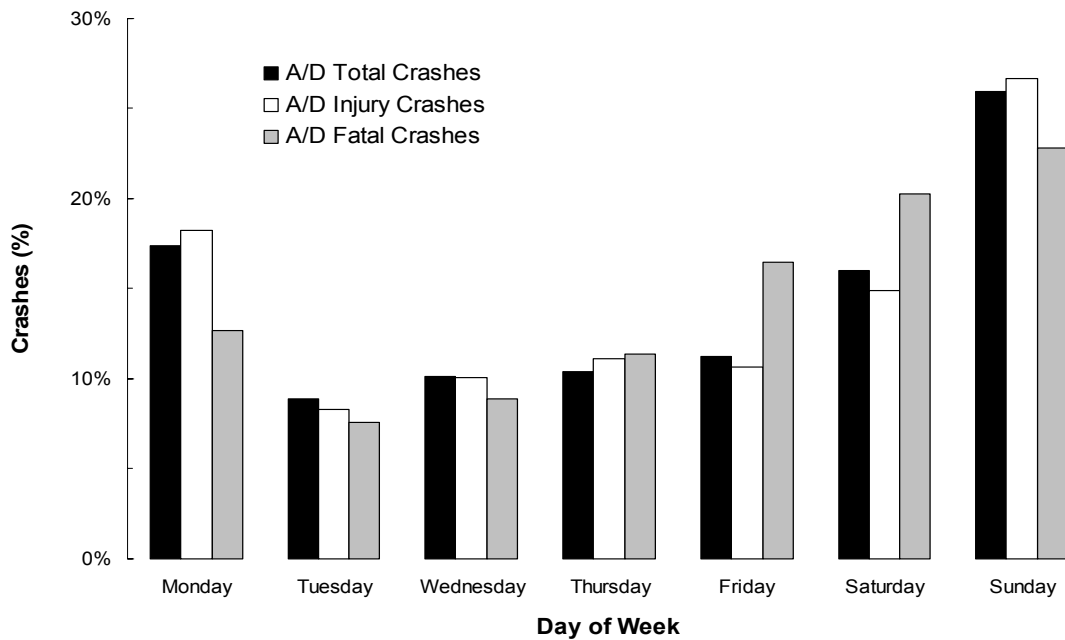
Table 7.04 shows the number and rate per day of alcohol and other drug-related crashes for each month. The rates remained similar from month to month. The highest percentage of total alcohol and other drug-related crashes, and injury crashes occurred in September. The highest percentage of fatal alcohol and other drug-related crashes occurred in June.

Table 7.04 Month of Alcohol and Other Drug-Related (A/D) Crashes, Injury Crashes and Fatal Crashes, Utah 2000

Month	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	Rate per Day	#	Rate per Day	#	Rate per Day
January	183	5.90	93	3.00	7	0.23
February	170	6.07	76	2.71	4	0.14
March	177	5.71	87	2.81	3	0.10
April	175	5.83	104	3.47	9	0.30
May	182	5.87	101	3.26	7	0.23
June	176	5.87	100	3.33	11	0.37
July	196	6.32	101	3.26	9	0.29
August	166	5.35	96	3.10	9	0.29
September	197	6.57	106	3.53	7	0.23
October	168	5.42	106	3.42	4	0.13
November	172	5.73	78	2.60	3	0.10
December	201	6.48	104	3.35	6	0.19
Grand Total	2,163	5.93	1,152	3.16	79	0.22

Figure 7.04 and Table 7.05 show that almost half of the total alcohol and other drug-related total crashes (41.9%) and injury crashes (41.5%) occurred on Saturday, and Sunday. Similarly, almost half (43.1%) for fatal alcohol and other drug-related crashes occurred on

Figure 7.04 Day of Week for Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2000



Note: The above graph is based on percentages for the different crash categories. To read the above graph, look at one category across the days of the week. For example, look at only the white bars (i.e. alcohol and other drug-related injury crashes) from day to day. Do not compare the heights of the different crash categories for a specific day.

Table 7.05 Day of Week for Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2000

Day of Week	A/D Total Crashes		A/D Injury Crashes		A/D Fatal Crashes	
	#	%	#	%	#	%
Monday	376	17.4%	210	18.2%	10	12.7%
Tuesday	192	8.9%	96	8.3%	6	7.6%
Wednesday	219	10.1%	116	10.1%	7	8.9%
Thursday	225	10.4%	128	11.1%	9	11.4%
Friday	243	11.2%	123	10.7%	13	16.5%
Saturday	347	16.0%	172	14.9%	16	20.3%
Sunday	561	25.9%	307	26.6%	18	22.8%
Grand Total	2,163	100.0%	1,152	100.0%	79	100.0%

# Impaired Drivers Involved in Alcohol and Other Drug-Related Crashes

Male drivers were involved in over three-quarters (79.1%) of alcohol and other drug-related crashes. The largest number of total alcohol and other drug-related total crashes and injury crashes involved male drivers in the age range of 20 to 24 years. This age group also represented the largest number of female drivers involved in total alcohol and other drug-related total crashes, and injury crashes. Male drivers aged 20 to 24 years represented the greatest number of drivers involved in fatal alcohol and other drug-related crashes. Of the impaired drivers, 350 (16.2%) were under the age of 21 years, and 77 (3.6%) were under the age of 18 years.

Table 7.06 Gender and Age of Impaired Drivers Involved in Alcohol and Other Drug-Related (A/D) Total Crashes, Injury Crashes and Fatal Crashes, Utah 2000

Age	A/D Total Crashes				A/D Injury Crashes				A/D Fatal Crashes			
	Male Drivers		Female Drivers		Male Drivers		Female Drivers		Male Drivers		Female Drivers	
	#	%	#	%	#	%	#	%	#	%	#	%
<15	1	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
15 - 19	202	11.8%	55	12.2%	111	12.3%	38	15.0%	12	17.9%	2	20.0%
20 - 24	408	23.8%	67	14.8%	224	24.8%	45	17.7%	16	23.9%	1	10.0%
25 - 29	262	15.3%	57	12.6%	142	15.7%	31	12.2%	9	13.4%	2	20.0%
30 - 34	201	11.7%	56	12.4%	104	11.5%	28	11.0%	5	7.5%	2	20.0%
35 - 39	206	12.0%	70	15.5%	97	10.7%	38	15.0%	9	13.4%	2	20.0%
40 - 44	153	8.9%	53	11.7%	85	9.4%	26	10.2%	8	11.9%	0	0.0%
45 - 49	121	7.1%	43	9.5%	59	6.5%	24	9.4%	1	1.5%	1	10.0%
50 - 54	70	4.1%	24	5.3%	39	4.3%	13	5.1%	3	4.5%	0	0.0%
55 - 59	32	1.9%	15	3.3%	19	2.1%	6	2.4%	1	1.5%	0	0.0%
60 - 64	18	1.1%	4	0.9%	7	0.8%	1	0.4%	1	1.5%	0	0.0%
65 - 69	11	0.6%	2	0.4%	4	0.4%	1	0.4%	0	0.0%	0	0.0%
70 - 74	8	0.5%	3	0.7%	2	0.2%	1	0.4%	1	1.5%	0	0.0%
75 - 79	6	0.4%	0	0.0%	2	0.2%	0	0.0%	1	1.5%	0	0.0%
80 - 84	1	0.1%	0	0.0%	1	0.1%	0	0.0%	0	0.0%	0	0.0%
85 +	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Missing	14	0.8%	3	0.7%	8	0.9%	2	0.8%	0	0.0%	0	0.0%
Grand Total	1,714	100.0%	452	100.0%	904	100.0%	254	100.0%	67	100.0%	10	100.0%

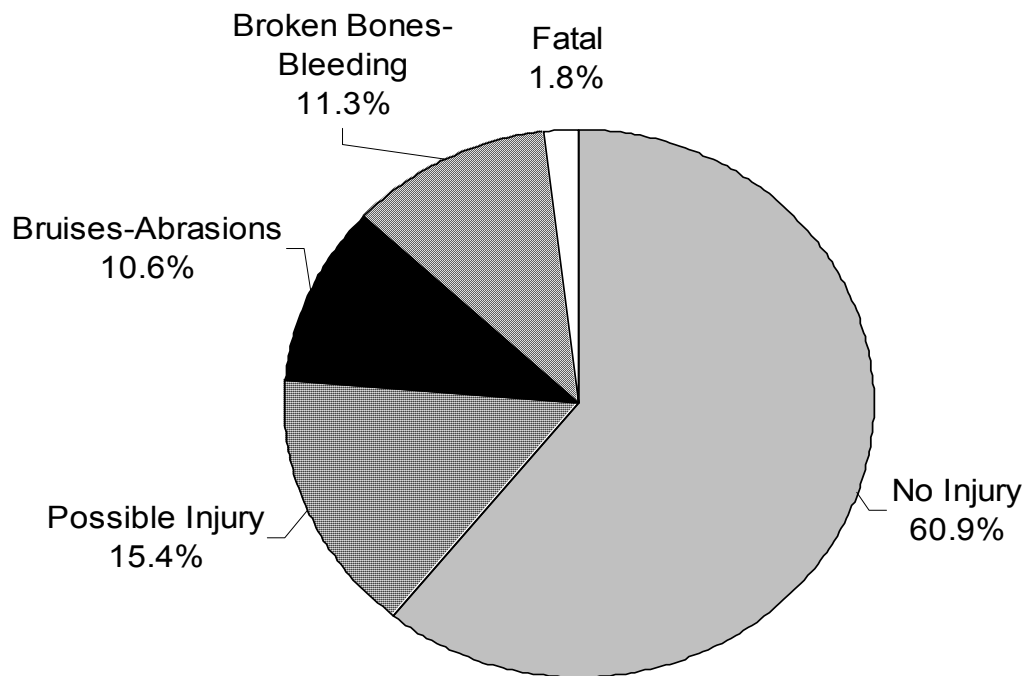
Note: There were alcohol and other drug-related crashes that involved two impaired drivers, and gender or age was missing for several of the impaired drivers. There were 5 alcohol or other drug impaired pedestrians involved in crashes. The information about the drivers involved in the alcohol or other drug impaired pedestrian crashes is not included in the above table.



# Alcohol and Other Drug-Related Crash Participants Injury Severity

Alcohol and other drug-related crash participants sustained a higher percentage of injury (39.1%) compared to 21.6% for all motor vehicle crash participants. In addition, a higher percentage of the alcohol and other drug-related crash participants died (1.8%), compared to all motor vehicle crash participants (0.3%).

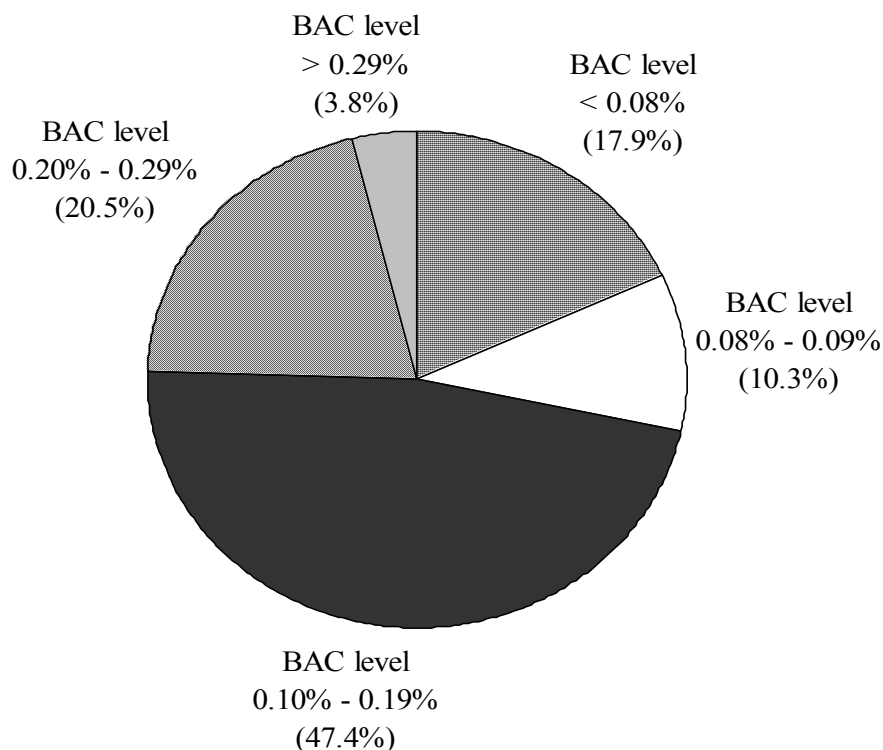
Figure 7.05 Alcohol and Other Drug-Related Crash Participants Injury Severity as Reported by Police, Utah 2000 (n=4,949)



# Blood Alcohol Concentration Levels of Drivers Involved in Fatal Alcohol-Related Crashes

Figure 7.06 shows the blood alcohol concentration (BAC) levels of drivers involved in fatal alcohol-related crashes. The majority (82.1%) of drivers had blood alcohol levels at or above the legal limit of 0.08%. In fact, 24.3% of the fatal alcohol-related crashes involved a driver with a blood alcohol concentration level over 0.20%.

Figure 7.06 Blood Alcohol Concentration (BAC) Levels of Drivers Involved in Fatal Alcohol-Related Crashes, Utah 2000 (n=78)



# Driving Under the Influence Facts

In the last 15 years, there have been 192,000 “driving under the influence” (DUI) arrests in Utah. DUI is driving (or in physical control of) a vehicle on a roadway in Utah with 0.08% or more alcohol in the blood, or “unsafe” driving due to alcohol or other drugs in the body. DUI is a Class B misdemeanor, punishable by a fine, jail or community service, 90-day license suspension, an alcohol class, or alcohol problem assessment. More severe criminal actions are taken for DUI with a passenger under the age of 16 years, DUI with an injury or fatal crash, or DUI that is the second or more DUI offense within 6 years.

In 2000 there were 15,428 arrests for DUI in Utah (Table 7.07). Most of the DUI arrests (34.4%) occurred in Salt Lake County, followed by Utah (12.2%), Davis (10.9%) and Weber (10.4%) counties. The average blood alcohol concentration (BAC) of those arrested was 0.14%. The average fine for DUI convictions was \$1,163.

Table 7.07 DUI Arrests by County, Utah 2000

County	DUI Arrests	
	#	%
Salt Lake	5,300	34.4%
Utah	1,885	12.2%
Davis	1,675	10.9%
Weber	1,599	10.4%
Tooele	519	3.4%
Washington	513	3.3%
Uintah	440	2.9%
Cache	406	2.6%
Other Counties	3,091	20.0%
Statewide	15,428	100.0%

Table 7.08 shows the number of DUI arrests by age. The largest percentage of those arrested were between the age of 25 to 36 years. For the under 21 years age group there is the “Not-a-drop” law which is zero alcohol tolerance for drivers under the age of 21 years. For teenagers between the ages of 13 to 18 years, there is the “Use-loose” law which suspends or postpones the teenagers’ license for 6 or more months for the purchase, attempt-to-purchase, possession or use of alcohol or other drugs.

Table 7.08 DUI Arrests by Age, Utah 2000

Ages	DUI Arrests	
	#	%
15-20	1,509	9.8%
21-24	2,933	19.0%
25-36	5,497	35.6%
37-48	3,951	25.6%
49+	1,538	10.0%
Grand Total	15,428	100.0%